

ABSTRACT OF THE DISCLOSURE

A roller bearing assembly includes an outer race prepared from a steel plate and a plurality of rollers wherein the outer race has a raceway surface to which induction hardening and tempering are applied. The outer race is a shell type. In addition to the raceway surface, an inner surface of an annular collar at one end of the outer race is also subjected to the induction hardening and tempering. An opposite annular collar is left as a raw material without being heat treated so that it can be easily bent.